Control Number: 50595

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Public Utility Commission of Texas

Employee Training Report
Required by 16 Texas Admin. Code § 25.97(d)

PROJECT NO. 50595

AFFECTED ENTITY: Upshur Rural Electric Cooperative Corporation

General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
Telephone: (512) 936-7180

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

Upshur Rural Electric Cooperative Corp. is providing a summary description of training programs provided to employees related to overhead transmission and overhead distribution lines. Among other things, these trainings include hazard recognition, adherence to NESC guidelines for construction, operation and maintenance of transmission and also distribution lines. Trainings also includes NESC Rule 232, clearance requirements over any of the 178 lakes listed in the Act. Included herein are summaries of the current training modules Upshur Rural Electric Cooperative Corp. provides to employees. These trainings occurred over multiple days.

Summary of TEC Safety Meeting HB 4150 Training (two- to four-hour course)

The training includes an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It also includes hazard recognition training as it applies to the requirements of compliance with the National Electrical Safety Code (NESC). This includes clearance requirements for lands, roadways, and waterways. The employee training defines to whom, when, and how the bill applies. It also explains the guidelines, requirements, and deadlines for filing reports. A portion of the course includes hazard recognition and an explanation of clearance guideline requirements preparing employees to proactively recognize and report hazards and clearance related issues on their utilities' system.

Course Outline:

1. HB 4150 Review
2. Hazard Recognition
3. NESC Clearance Guideline Requirements

Course Materials:

1. Power Point Presentation
2. Presentation Material Handouts
3. NESC Clearance Handouts
4. HB 4150 Law

1. [Continued] Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

Summary of Hazardous Recognition Training for Transmission Facilities (one-hour course to accompany TEC Safety Meeting)

For the purposes of this training, transmission facilities include those electric facilities operating above 60 kV. One of the challenges to recognizing hazards inherent to transmission facilities is the significant changes in conductor sag for transmission lines. The goal for this training is to educate employees to observe, recognize and report hazardous situations.

Course Outline:

1. Definition of a Hazard
2. Hazards to Report
   a. Non-compliance with NESC
   b. Failed System Components
   c. Failure of Warning Lights/Marker Balls
3. Summary of Clearances for Transmission Facilities
4. Recognition of Changes in Conductor Sag for Long Spans
5. Activities near the Line
   a. Grading
   b. Crane Operation OSHA 1926.1408(a)
   c. Scaffold Clearances OSHA 1926.451(f)
   d. Construction of Adjacent Buildings/Signs
6. Right-of-way Issues
   a. Danger Trees
   b. Dead Trees
   c. Erosion of the Right-of-Way
7. Priorities of Reported Issues
8. Record Keeping Requirements

Objectives:

1. Define hazards associated with transmission lines.
2. Identify appropriate distance for cranes from power lines.
3. Identify required clearances for transmission line related to roads and buildings.
4. Define a danger tree.

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

Summary of Transmission Webinar for PURA §38.102 (one-hour course to accompany TEC Safety Meeting)

This webinar discusses the requirements for transmission facilities which are defined as facilities operating above 60 kV. The webinar does not include discussions regarding distribution lines. This training focuses on transmission clearances, strength issues, and access of overhead transmission lines.

Course Outline:

1. Maximum Operating Temperature and Sag Requirements for Transmission Conductors
2. Additional Ground Clearance Requirements for Transmission Lines
   a. Maximum Operating Voltage
   b. Elevation above Sea Level
   c. Electrostatic Effects to Vehicles below the Line.
3. Additional Clearances from Building/Signs
   a. Deflection of Insulators
   b. Deflection of Structures
   c. Clearance Based on Maximum Operating Voltage
   d. Limited Electrostatic Effects to Buildings and Signs below the Line
4. Mid-span Conductor Clearances
5. Power Lines and Phone Lines Crossing below Transmission Lines
6. Grade of Construction for Voltages Over 22kV
   a. Guying Strength Requirements
   b. Under-build Strength Requirements
7. Identification of Climbable Supporting Structures

Objectives:

1. Determine appropriates clearances for transmission lines.
2. Define maximum sag for determined clearances.
3. Identify strength requirements for transmission facilities

Additionally, Upshur Rural Electric Cooperative Corp. employees registered professional engineers who possess knowledge of the National Electrical Safety Code and are required to complete 15 hours of continuing education each year to maintain their certification.

Affected Entity: Upshur Rural Electric Cooperative Corp. **PROJECT NO.** 50595

AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Signature

Rob Walker
Printed Name

General Manager
Job Title

Upshur Rural Electric Cooperative Corp.
Name of Affected Entity

Sworn and subscribed before me this 28th **day of** April, 2020.
Month Year

Notary Public in and For the State of Texas.

My commission expires on _____.

DEE WINGFIELD
Notary Public, State of Texas
Comm. Expires 09-25-2021
Notary ID 131292965